

GP-302217

IMPROVED PEMFC ELECTROCATALYST
BASED ON MIXED CARBON SUPPORTS

ABSTRACT OF THE DISCLOSURE

A membrane electrode assembly for a proton exchange membrane fuel cell that employs an improved catalyst. The catalyst is a mixture of a first catalyst and a second catalyst. The first catalyst is a 50 wt% Pt formed on Vulcan XC72 carbon having a BET surface area of about 250 m²/g. The second catalyst is a 50 wt% Pt formed on Ketjen Black carbon having a BET surface area of about 800 m²/g. The ratio of the first catalyst to the second catalyst is 1:1.